

## The complements of lower cones of degrees and the degree spectra of structures

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### Abstract

© 2016, Association for Symbolic Logic. We study Turing degrees  $a$  for which there is a countable structure  $A$  whose degree spectrum is the collection  $\{x: x \not\leq a\}$ . In particular, for degrees  $a$  from the interval  $[0', 0'']$ , such a structure exists if  $a' = 0''$ , and there are no such structures if  $a'' > 0'''$ .

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### Keywords

Algebraic structures, Computably enumerable (c.e.) sets, Degree spectra, Families of c.e. sets, Turing degrees